What is claimed is:

- A plastisol composition comprising 5 to 60 weight % of at least one pulverulent organic polymer, 5 to 65 weight % of at least one plasticizer, 1 to 30 weight % pulverulent saccharide selected from the group consisting of monosaccharides, disaccharides and oligosaccharides, and 0.01 to 40 weight % of at least one reactive additive selected from the group 10 consisting of di- and polyisocyanates, blocked di- and polyisocyanates, microencapsulated di- and polyisocyanates, amino-functional additives, hydroxy-functional additives, epoxy resins, condensation products of epoxy resins and polyaminoamides and/or di- or polyamines, dicarboxylic acids, 15 di- and tricarboxylic acid anhydrides, β-dicarbonyl compounds, metal chelates of β -dicarbonyl compounds, peroxides and mixtures thereof.
- A plastisol composition according to claim 1, wherein the at least one pulverulent organic polymer is selected from the group consisting of polyvinyl chloride, copolymers of vinyl chloride with vinyl acetate, styrene and/or alkyl (meth)acrylates, copolymers of styrene with (meth)acrylic acid,
 (meth)acrylamide and/or alkyl (meth)acrylates, copolymers of methyl or ethyl (meth)acrylate with C₃- to C₈-alkyl (meth)acrylates, alkyl (meth)acrylate homopolymers and mixtures thereof.
- 30 3. A plastisol composition according to claim 1, wherein the at least one pulverulent saccharide is selected from the group consisting of dextrose, glucose, galactose, mannose, fructose, arabinose, xylose, ribose, 2-deoxy-ribose, cellobiose, maltose (malt sugar), lactose (milk sugar), sucrose (cane sugar),
- 35 gentiobiose, melibiose, trehalose, turanose, gentianose,

kestose, maltotriose, melecitose, raffinose, stachyose, lychnose, secalose and mixtures thereof.

- 4. A plastisol composition according to claim 1, wherein the at least one pulverulent saccharide has an average particle size of 1 to 100 µm.
 - 5.A plastisol composition according to claim 1, additionally comprising up to 40 weight % of at least one filler.

6. A plastisol composition according to claim 1, wherein the at least one pulverulent saccharide has an average particle size of 1 to 20 μm .

- 7. A plastisol composition according to claim 1 comprising 3 to 10 weight % of at least one pulverulent saccharide.
- 8. A plastisol composition according to claim 1, wherein said at least one pulverulent saccharide is selected from the group consisting of dextrose, sucrose, and mixtures thereof.
 - 9. A plastisol composition according to claim 1, additionally comprising at least one additive selected from the group consisting of pigments, anti-aging agents, rheology auxiliaries, blowing agents and mixtures thereof.
 - 10. A plastisol composition according to claim 1, wherein said at least one plasticizer is selected from the group consisting of C_4 to C_{16} -alkyl phthalates.
 - 11. A method of forming an adhesive or coating on a substrate, said method comprising applying the plastisol composition of claim 1 to said substrate, heating said plastisol composition, and cooling said plastisol composition to form a cured adhesive

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- 12. The method of claim 11, wherein said substrate is comprised of metal.
- 5 13. The method of claim 11, wherein said substrate is selected from the group consisting of steel, electrolytically galvanized steel, hot-dip galvanized steel, and organically coated steel.
- 14. The method of claim 11, wherein said substrate is part of a 10 motor vehicle.